

* SWBAT define and apply momentum

Sep 6-2:31 PM

Welcome!!!

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SECA Physics
Monday 8 December 2014

- * Pick up:
 - slip of paper (for later)



Opening Questions:

A civil war soldier sees a cannon ball slowly rolling past him.
He sticks out his foot to stop it.

What do you think happened? Why?

LOST HIS FOOT

<http://www.wired.com/2011/12/mythbusters-cannonball-map/>



MOMENTUM

Centering...

Sep 7-7:04 AM

^{IN THE CUP}
Penny, card and cup

↳ INERTIA IS MATTER RESISTING CHANGE

"Newton's Cradle"

MOMENTUM: INERTIA IN MOTION

CONSERVATION OF MOMENTUM

TOTAL MOMENTUM STAYS THE SAME

Basketball drop

BASKETBALL $M \cdot v = m \cdot V$ TENNIS BALL

Dec 7-7:51 AM

INERTIA IS MATTER RESISTING CHANGE

MASS IS A MEASURE INERTIA

Momentum is... INERTIA IN MOTION

MOMENTUM = MASS · SPEED

CONSERVATION: TOTAL MOMENTUM
(BEFORE VS. AFTER) STAYS THE SAME

Worksheet...

Dec 7-7:51 AM

Daily 3 Questions

- * Every day except test/project days
- * 3 Questions on the topics of the day
- * Main source of daily points
- * I am happy to give credit when I have no concerns about someone giving or getting help with the answers.

CP Hmwk for Thursday:
Notes page to use on test:
Work, Power, Energy

You can't get your points if you don't have your **NAME!!!**

Name	Period
1.	
2.	
3.	

Sep 9-7:32 AM

1. What happened to the small ball when it was **on top of** the basketball (compared to dropping JUST the basketball)?
 - A. It did not bounce up as much as just the basketball
 - B. It bounced up about the same
 - ☒ C. It bounced higher than just the basketball
2. Momentum is...
 - A. a push or a pull
 - B. work over time
 - ☒ C. inertia in motion
3. Conservation of momentum means total momentum STAYS the SAME.

Dec 2-7:55 AM